

	Type	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	684	702/189.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:02	
2	BRS	3763	324/66,67,73.1,232,233,326 -329,335.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:22	
3	BRS	2378	455/103,107,108,110,113,115.1,115.3,118,121.ccls.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:23	
4	BRS	124	379/25.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:04	
5	BRS	2	"20050156776"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:04	
6	BRS	2	"20020196177"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:04	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
7	IS&R	2	("6751553").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:16	
8	IS&R	2	("6529006").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:05	
9	IS&R	2	("6396433").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:05	
10	BRS	6	"6751553".uref.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:18	
11	BRS	1	"6751553".PN.	USPAT; USOCR	2005/12/20 09:18	
12	BRS	1	"6700526".PN.	USPAT; USOCR	2005/12/20 09:18	
13	BRS	3	"6529006".uref.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:20	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
14	BRS	3	"6396433".uref.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:20	
15	BRS	1396	signal\$1 with direction\$1 and first with second with phase\$2 and phase-locked with loop	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:30	
16	BRS	18	signal\$1 with direction\$1 with conductor\$1 and first with second with phase\$2 and phase-locked with loop	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 10:14	
17	BRS	1	signal\$1 with direction\$1 with conductor\$1 same first with second with phase\$2 and phase-locked with loop	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:32	
18	BRS	1	determin\$3 with signal\$1 with direction\$1 with conductor\$1 and first with second with phase\$2 and phase-locked with loop	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:32	
19	BRS	18	signal\$1 with direction\$1 with conductor\$1 and first with second with phase\$2 and phase-locked with loop	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:35	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
20	BRS	10	S214 or S215 or S216 or S217 or S218	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:12	
21	BRS	2	(S214 or S215 or S216 or S217 or S218) and signal\$1 with direction\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 09:48	
22	BRS	36	signal\$1 with direction\$1 with conductor\$1 and first with second with phase\$2 and (phase adj locked or phase-locked) with loop\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 10:15	
23	BRS	12	signal\$1 with direction\$1 with conductor\$1 and first with second with (phase adj locked or phase-locked) with loop\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 10:16	
24	BRS	10	signal\$1 with direction\$1 with conductor\$1 and digit\$4 with (phase adj locked or phase-locked) with loop\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 10:16	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
25	BRS	5	signal\$1 with direction\$1 with conductor\$1 and digit\$4 with (phase adj locked or phase-locked) with loop\$3 with frequenc\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 10:18	
26	BRS	15	signal\$1 with direction\$1 with conductor\$1 and digit\$4 with ((phase adj locked with loop\$1) or (phase-lockedwith loop\$1) or PLL) with frequenc\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 10:21	
27	BRS	15	signal\$1 with direction\$1 with conductor\$1 and digit\$4 with ((phase adj locked with loop\$1) or (phase-lockedwith loop\$1) or PLL or DPLL) with frequenc\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 10:24	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
28	BRS	6	signal\$1 with direction\$1 with conductor\$1 and digit\$4 same (two or (first same second)) with ((phase adj locked with loop\$1) or (phase-lockedwith loop\$1) or PLL or DPLL) with frequenc\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 10:26	
29	BRS	2	signal\$1 with direction\$1 with conductor\$1 and digit\$4 same (two or (first same second)) with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 10:27	
30	BRS	14	signal\$1 with direction\$1 with conductor\$1 and digit\$4 same ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 10:31	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
31	BRS	10	signal\$1 with direction\$1 with conductor\$1 and digit\$4 same ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4 with signal\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:02	
32	BRS	1	(signal\$1 with direction\$1).ti. and signal\$1 with direction\$1 with conductor\$1 and digit\$4 same ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4 with signal\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:04	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
33	BRS	14	(pipe\$1 or line\$1 or cable\$1) with (direct\$4 or locat\$3) with conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4 with signal\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:05	
34	BRS	23	(pipe\$1 or line\$1 or cable\$1) with (direct\$4 or locat\$3) with conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:16	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
35	BRS	29	(pipe\$1 or line\$1 or cable\$1 or signal\$1) with (direct\$4 or locat\$3) with conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:17	
36	BRS	40	(pipe\$1 or line\$1 or cable\$1 or signal\$1) with (direct\$4 or locat\$3) same conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:17	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
37	BRS	5	determin\$3 with (pipe\$1 or line\$1 or cable\$1 or signal\$1) with (direct\$4 or locat\$3) same conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:22	
38	BRS	40	(pipe\$1 or line\$1 or cable\$1 or signal\$1) with (direct\$4 or locat\$3) same conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:27	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
39	BRS	21	(pipe\$1 or line\$1 or cable\$1 or signal\$1) with (direction\$1 or locat\$3) same conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) with frequenc\$3 and receiv\$3 with digit\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:28	
40	BRS	2	(pipe\$1 or line\$1 or cable\$1 or signal\$1) with (direction\$1 or locat\$3) with conductor\$1 with first with second with frequen\$3 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:29	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
41	BRS	2	(pipe\$1 or line\$1 or cable\$1 or signal\$1) with (direction\$1 or locat\$3) with conductor\$1 with first with second with frequen\$3 and digit\$4 same ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:30	
42	BRS	8	(pipe\$1 or line\$1 or cable\$1 or signal\$1) with (direction\$1 or locat\$3) with conductor\$1 with first with second with frequen\$3 and ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:33	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
43	BRS	93	digital\$2 same (detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) and conductor\$1 and ((first with second) or parallel or two or pluralit\$3) with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:37	
44	BRS	5	digital\$2 same (detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) same conductor\$1 and ((first with second) or parallel or two or pluralit\$3) with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:37	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
45	BRS	8	digital\$2 same (detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) same ((first with second) or parallel or two or pluralit\$3) with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL) and conductor\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:38	
46	BRS	43	digital\$2 same (detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) same ((first with second) or parallel or two or pluralit\$3) with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:48	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
47	BRS	137	digital\$2 and (detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) same ((first with second) or parallel or two or pluralit\$3) with (((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:49	
48	BRS	2	digital\$2 and (detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 same ((first with second) or parallel or two or pluralit\$3) with (((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:48	
49	BRS	961	digital\$2 and (detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) same (((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:49	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
50	BRS	4	digital\$2 and (detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 same ((phase adj locked) with loop\$1) or (phase- locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 11:50	
51	BRS	25	(detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:39	
52	BRS	25	(detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 and ((digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL) or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:26	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
53	BRS	4	(detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) same conductor\$1 same ((digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL) or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:24	
54	BRS	1	(detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 same ((digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL) or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:24	
55	BRS	2	(detect\$3 or determin\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 and first with second with ((digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL) or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:25	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
			(detect\$3 or determini\$3 or monitor\$3) with (line\$1 or cable\$1 or pipe\$1 or wire\$1) with (direction\$1 or locat\$3) with conductor\$1 and ((digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL)) or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:27	
56	BRS	20	(detect\$3 or determini\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 and ((digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL)) or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:40	
57	BRS	4	(detect\$3 or determini\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 and digit\$4 same (two or parallel or pluralit\$3) with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:45	
58	IS&R	2	("4677663").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 12:45	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
59	IS&R	2	("4455654").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 13:25	
60	BRS	2	"20050156776"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:13	
61	BRS	2	"20020196177"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:13	
62	IS&R	2	("6751553").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:13	
63	IS&R	2	("6529006").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:13	
64	IS&R	2	("6396433").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:13	

	Type	Hits	Search Text	Dbs	Time Stamp	Comments
65	BRS	8	S271 or S272 or S273 or S274 or S275 and locat\$3 with conductor\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:13	
66	BRS	3	(S271 or S272 or S273 or S274 or S275) and locat\$3 with conductor\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	2005/12/20 15:13	
67	BRS	6890	702/189.ccls. or 324/66,67,73.1,232,233,326-329,335.ccls. or 455/103,107,108,110,113,115.1,115.3,118,121.ccls.ccl s. or 379/25.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 15:24	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
68	BRS	7	(702/189.ccls. or 324/66,67,73.1,232,233,326 -329,335.ccls. or 455/103,107,108,110,113,11 5.1,115.3,118,121.ccls.ccl s. or 379/25.ccls.) and (detect\$3 or determini\$3 or monitor\$3) with (direction\$1 or locat\$3) with conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 15:25	
69	BRS	9	(702/189.ccls. or 324/66,67,73.1,232,233,326 -329,335.ccls. or 455/103,107,108,110,113,11 5.1,115.3,118,121.ccls.ccl s. or 379/25.ccls.) and (direction\$1 or locat\$3) with conductor\$1 and digit\$4 with ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 15:25	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
70	BRS	8	(702/189.ccls. or 324/66,67,73.1,232,233,326 -329,335.ccls. or 455/103,107,108,110,113,11 5.1,115.3,118,121.ccls.ccl s. or 379/25.ccls.) and line\$1 with locator\$1 and ((phase adj locked) with loop\$1) or (phase-locked with loop\$1) or PLL or DPLL)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 15:25	
71	BRS	80	(702/189.ccls. or 324/66,67,73.1,232,233,326 -329,335.ccls. or 455/103,107,108,110,113,11 5.1,115.3,118,121.ccls.ccl s. or 379/25.ccls.) and line\$1 with locator\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 15:26	
72	BRS	167	(702/189.ccls. or 324/66,67,73.1,232,233,326 -329,335.ccls. or 455/103,107,108,110,113,11 5.1,115.3,118,121.ccls.ccl s. or 379/25.ccls.) and (cable\$1 or pipe\$1 or line\$1) with locator\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2005/12/20 15:26	

	Type	Hits	Search Text	DBs	Time Stamp	Comments
73	BRS	38	(702/189.ccls. or 324/66,67,73.1,232,233,326 -329,335.ccls. or 455/103,107,108,110,113,11 5.1,115.3,118,121.ccls.ccl s. or 379/25.ccls.) and (cable\$1 or pipe\$1 or line\$1) with locator\$1	US-PGPUB	2005/12/20 15:27	

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
1			US 2005024833 3 A1	20051110	20	Method for decoupling interference due to bleedover in metallic pipe and cable locators	324/67	324/326	324/326; 324/67
2			US 2005024281 8 A1	20051103	28	Bore location system	324/326		324/326
3			US 2005023706 2 A1	20051027	17	Flux plane locating in an underground drilling system	324/326		324/326
4			US 2005021251 9 A1	20050929	17	BORING TOOL TRACKING/GUIDING SYSTEM AND METHOD WITH UNCONSTRAINED TARGET LOCATION GEOMETRY	324/326		324/326
5			US 2005020048 4 A1	20050915	10	Surface tracker	340/572.8	116/173; 116/278; 324/326; 340/825.4 9	324/326

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
6			US 2005015992 9 A1	20050721	23	Method and apparatus for digital detection of electronic markers using frequency adaptation	702/189		702/189
7			US 2005015660 0 A1	20050721	37	Single and multi-trace omnidirectional sonde and line locators and transmitter used therewith	324/329	342/22	324/329
8		X	US 2005009687 9 A1	20050505	24	Method and apparatus for digital detection of electromagnetic signal strength and signal direction in metallic pipes and cables	702/189		702/189
9			US 2005008306 0 A1	20050421	15	BORING TOOL TRACKING/GUIDING SYSTEM AND METHOD WITH UNCONSTRAINED TARGET LOCATION GEOMETRY	324/326		324/326

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
10			US 2005007331 3 A1	20050407	23	Position and orientation locator/monitor	324/326		324/326
11	X		US 2005006803 5 A1	20050331	39	Flux orientation locating in a drilling system	324/326		324/326
12	X		US 2005000160 7 A1	20050106	28	Multi-test circuit interrupter locator and circuit interrupter tester	324/67		324/67
13	X		US 2004022751 7 A1	20041118	18	System and method for locating underground utilities carrying passive signals	324/326	324/67	324/326; 324/67
14	X		US 2004019604 4 A1	20041007	17	Flux plane locating in an underground drilling system	324/326	324/329; 702/150	324/326; 324/329
15	X		US 2004017416 8 A1	20040909	27	Locating arrangement and method using boring tool and cable locating signals	324/326	324/329	324/326; 324/329
16	X		US 2004016474 0 A1	20040826	29	Bore location system	324/326	324/345	324/326

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
17	X		US 2004014081 0 A1	20040722	21	Position and orientation locator/monitor	324/326	324/329	324/326; 324/329
18	X		US 2004014080 9 A1	20040722	39	Flux orientation locating in a drilling system	324/326	175/45; 324/329	324/326; 324/329
19	X		US 2004007555 6 A1	20040422	8	Failed filter arrest indicator and method for use in multiple arrester location	340/551	324/326	324/326
20	X		US 2004007039 9 A1	20040415	18	Omnidirectional sonde and line locator	324/326	340/690; 340/854.1	324/326
21	X		US 2004000447 9 A1	20040108	13	Pipeline mapping and interrupter therefor	324/326	324/529; 324/67	324/326; 324/67
22	X		US 2003019750 9 A1	20031023	28	Bore location system	324/326	324/345	324/326
23	X		US 2003018430 0 A1	20031002	9	underground locator with a laser marking device.	324/326		324/326
24	X		US 2003015592 2 A1	20030821	12	ELECTRONIC MARKER LOCATOR SYSTEM AND METHOD	324/326	324/76.77	324/326

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
25	X		US 2003010286 8 A1	20030605	25	Boring tool tracking/guiding system and method with unconstrained target location geometry	324/326		324/326
26	X		US 2003007610 6 A1	20030424	24	Orientation sensor arrangement and method for use in a system for monitoring the orientation of an underground boring tool	324/326	175/45; 324/329	324/326; 324/329
27	X		US 2003007162 5 A1	20030417	31	Locating arrangement and method using boring tool and cable locating signals	324/326		324/326
28	X		US 2003005268 3 A1	20030320		Flux plane locating in an underground drilling system	324/326	175/45; 702/9	324/326
29	X		US 2003001137 0 A1	20030116	41	Flux orientation locating in a drilling system	324/326	324/323	324/326

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
30	X		US 2003000157 6 A1	20030102	15	Method for induced-impedance isolation using magnetic induction	324/326		324/326
31	X		US 2003000155 6 A1	20030102	14	Cable location system using magnetic induction	324/67	324/326	324/326; 324/67
32	X		US 2002014042 9 A1	20021003	17	Boring technique using locate point measurements for boring tool depth prediction	324/326		324/326
33	X		US 2002007500 2 A1	20020620		Conductor tracing system	324/326		324/326
34	X		US 2002007500 1 A1	20020620		Multi-axis locator for detection of buried targets	324/326		324/326
35	X		US 2002004770 9 A1	20020425		Detecting underground conductors	324/326		324/326
36	X		US 2002003436 5 A1	20020321	8	Locating system for indentifying and locating subterranean optical cables	385/100	324/67	324/67

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
37	X		US 2002003047 6 A1	20020314		Multi-test circuit breaker locator	324/67		324/67
38	X		US 2001004307 1 A1	20011122		Closure guard with electronic marker	324/326	324/67	324/326; 324/67